Code: 014-20-000114
No: 1st & Final Bill
Divisi Dasarahalli Division

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(FOR OTHER WORKS)
Shettyhalli Sub-division

Est Cost 75.00Lakhs
TS. No:
Date:

Bill Received No. Date Cash Book vr.No. Date:
Scheduled Docket No Head of Account

Name of work :- Drilling of Borewell and Installation of Pump and Motors and other Accessories, PVC Pipe Line in ward no 14 Bagalagunte, T Dasarahalli Sub Division.

Name of Contractor and full address: M/s Nagasandra Shamanna RamaRao (RAJALAKSHMI ROCK DRILLERS). RUKMINI NAGAR, NAGASANDRA, TUMKUR ROAD, BANGALORE-560073.

Reference to agreement No EE/DD/WO/ 24//2021-22 Date 28.06-2021

Certified that the measurement were taken by me on dated:- 06.12.2021 and recorded as Page 488223 to 488231 of measurement Book No: 4883 and that the work is satisfactorily executed.

Rama Rao 19-20
Contractor

Officer-in-charge of work

Certified that the measurement were checked by me on....16/12/2021.....and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account if have been actually brought to the of the work and the contractor has not previously received any advance on this security. These Materials are of an Imperishable nature and are all required by the contractor for immediate use on the work in connection with items for which rates for finished work have been agreed upon. A formal agreement signed and executed by the contractor is recorded in the office.

Sub Division Officer

II Memorandum of Payment

1	Total value of work done or supplies made as per Account with in	
2	Deduct amount to be held in reserve being.....percent Rs.....	
3	Balance	
4	Deduct Payments	
	a) Amount of previous payment as in the Office Cash Book vr. No.....Dated.....S.D.No.....	
	Amount adjusted towards cash advance recovery of	1st and Final Bill → 7133785-00
	b) Payments cost of store or other materials supplied	IT → 142676-00
	Now made Recovery of amount Creditable to his/other work	LWC → 71338-00
	Amount paid on this bill be cheque/cash	CBF → 7134-00
5	Balance being unpaid value of work done held in reverse TOTAL	Rly → 1391-00
6	Deduct cash advance made on the Office Cash Book Vr.No..... Dated.....less adjustment	CESS → 63694-00
7	No amount due to or from contractor	SESS → 63694-00
	Unadjustment items	349927/-
8	Advance to contractor for materials brought site (as detailed) within	Net → 6783858-00
	Value of Government materials supplied	
	Total Amount adjusted	

Rama Rao
Contractor's Signature

Received Rs.....in words.....
.....
.....by cash and by adjustment
Payment as per memorandum.
(in final settlement of all demands)

Witness:
1
2 Rama Rao
Date Signature of Contractor

Receipt Stamp

Paid by me by Cheque No.....Date.....
Cash Rs.....
Date.....Initial of officer making payment

(for use in the office)

Audited and admitted for Rs 7133785/-
Passed by Cheque for Rs 6783858/-
(Sixty Seven Lakh Eighty Three Thousand Eight hundred Fifty Eight Rupees only/-
by adjustment Rs 349927/-

Accountants Superintendent Exe. Engineer
B.B.M.P. Dasarahalli Division
Dated: Executive Engineer

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Name of Work:- Drilling of Borewell and Installation of Pump and Motors and other Accessories, PVC Pipe Line in ward no 14 Bagalagunte, T Dasarahalli Sub Division

JOB CODE: 014-20-000114

SL No	Items grouped under sub-heads and sub-works of the estimate		Previous Measurement			Present Measurement			Total Up-to-date	
		Unit	Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
1	geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the hand pumps, MWS or PWSS by vertical electrical sounding by adopting venner or schlumbergers's method including recconnaisance suevey of geological formation Geophysical investigation of existing ground Water in the vicinity. its quality , quality & acceptabality of the users indicating the location of the site recommendeddepth of casing pipe required to seal the tope unconsolidated formation including an extra depth 1.0 metre in consolidated formation for aquire proposed to be tapped propable yield and other information required including transportation of instrument and accessories to work site, engating technical personal and labour etc.	Each				7	3876.52	27135.64	7	27135.64
2	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified. complete as per specifications and as per the direction of Engineer-in-charge of the work. 0.00 to 50.00 mtrs	Rmtr				350	356.99	124946.50	350	124946.50
3	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified. complete as per specifications and as per the direction of Engineer-in-charge of the work 50mtr to 100.00 mtr	Rmtr				350	454.73	159155.50	350	159155.50
4	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified. complete as per specifications and as per the direction of Engineer-in-charge of the work 100.00 to 150.00 mtr	Rmtr				350	469.13	164195.50	350	164195.50
5	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified. complete as per specifications and as per the direction of Engineer-in-charge of the work 150.00 to 200.00 mtr	Rmtr				350	551.44	193004.00	350	193004.00
6	200.00 to 250.00 mtr	Rmtr				350	652.26	228291.00	350	228291.00

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SL No	Items grouped under sub-heads and sub-works of the estimate	Previous Measurement				Present Measurement			Total Up-to-date	
		Unit	Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
7	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified. complete as per specifications and as per the direction of Engineer-in-charge of the work 250.00 to 300.00 mtr	Rmtr				350	720.16	252056.00	350	252056.00
8	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified. complete as per specifications and as per the direction of Engineer-in-charge of the work 300.00 to 350.00 mtr	Rmtr				350	848.76	297066.00	350	297066.00
9	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified. complete as per specifications and as per the direction of Engineer-in-charge of the work350.00 to 400.00 Mtr	Rmtr				324	925.92	299998.08	324	299998.08
10	Providing and Fixing 250mm dia PVC pipeetc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Mtr				194	1176.95	228328.30	194	228328.30
11	Supply of ISI Mark 175mm Nominal bore ,plain end steel Casing pipe- grade of steel Fee 410 of wall thickness 5.4 mm thick confirming to IS 1387/1933 and manufactured by basic open hearth electric or basic oxygen process in random lenth of 5 to 7mtrs. Both ends threaded Confirming to IS 554/1985, One end fixed with a Socket Confirming to IS 4270:2001 and the other end with Screwed pipes . All pipes shall be reasonably free from defectes. The tube shall be reasonably straight should be with ISI marking, weighing 25.10kg/mtr.complete as per specifications and as per the direction of Engineer-in-charge of the work..complete as per specifications and as per the direction of Engineer-in-charge of the work.	Rmtr				442.6	1363.16	603334.62	442.6	603334.62
12	Providing and fixing MS casing collars as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				7	154.32	1080.24	7	1080.24
13	Providing and laying at site of work MS casing caps as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				7	102.88	720.16	7	720.16

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SL No	Items grouped under sub-heads and sub-works of the estimate		Previous Measurement			Present Measurement			Total Up-to-date	
		Unit	Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
14	Supplying and delivery of Submersible Pump Sets of 150mm dia suitable for bore well and confirming to IS 8034 specifications and its latest ammendments, 3-Phase, SS Bowl and impeller with low volt motor with testing as per instructions of Engineer incharge of work.complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				7	69674.45	487721.15	7	487721.15
15	Supplying, laying, jointing testing and commissioning of GI pipes confirming to IS 1239:1990 with latest amendments, including fising collars, Elbows, Tees, bends, Glad Cocks and other Fittings (Excluding Cost of Specials) with Cuts and Threads wherever necessary including conveying the materials to workspot, including testing for water tightness with all lead and lifts etc complete (Contractor shall make his own arrangements for procuring water for testing) Class-C -Heavy 50mm Dia complete as per specifications and as per the direction of Engineer-in-charge of the work.	Rmtr				2097	476.33	998864.01	2097	998864.01
16	Suppy and fixing 50mm dia GI collar Heavy duty etc., complete as per specifications and as per the direction of Engineer-in-charge of the work.	Nos				350	185.18	64813.00	350	64813.00
17	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990.3C X 6.0Sq.mm complete as per specifications and as per the direction of Engineer-in-charge of the work.	Rmtr				4334	210.9	914040.60	4334	914040.60
18	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 With ISI Mark and as per its latest amendments 50mm Dia complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				7	1208.84	8461.88	7	8461.88
19	Supplying and delivery at site brand new star/Essen/Lotus/Sun-Shines/Adarsh/ G.K.Controls Best Indigenous make combined energy meter-cum-control panel board unit minimum mechanically strong suitable for operation on 3HP 50HZ 380/440 Volts AC supply with spring loaded latch locking Device with a key Ribbs should be provided. contron panal board unit suitable for operation on 3HP 50HZ 380/440 Volts AC shall be consists Etc. complete the panal board shall be fabricated in single unit in the above components panal board suitable pump set 10HP to 20HP with stae delta starter out door panel board up to 20HP, complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				7	21604.8	151233.60	7	151233.60
20	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions of engineer incharge of work.complete as per specifications and as per the direction of Engineer-in-charge of the work.	Job				7	5812.72	40689.04	7	40689.04
21	Labour charges for erection of outdoor type panel board and meter board units with all necessary materials and labour, tools and equipments including providing cement concrete foundation bed etc., complete as per specification, with testing of as per instructions of engineer incharge of work. complete as per specifications and as per the direction of Engineer-in-charge of the work.	Job				7	1232.5	8627.50	7	8627.50
22	Supplying of TPST with rewirable porcelain channels in SM enclosure 32 amps complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				7	1851.84	12962.88	7	12962.88

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Sl No	Items grouped under sub-heads and sub-works of the estimate	Unit	Previous Measurement Qty	Previous Measurement Rate Rs. P.	Previous Measurement Cost	Present Measurement Qty	Present Measurement Rate Rs. P.	Present Measurement Cost	Total Up-to-date Qty	Total Up-to-date Cost
23	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs crews.20"x20"x2.5"complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				7	300.41	2102.87	7	2102.87
24	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 230/440v A.C. 50 Hz 12/24v D.Ccomplete as per specification, with testing of as per instructions complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				7	442.38	3096.66	7	3096.66
25	Supplying, fixing and wiring heavy duty low voltage capacitors conforming to IS 2834. 3 phase, 400/440 volts grade, for power factor improvement of rotating machineries like induction motor. 2KVAR complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				7	411.52	2880.64	7	2880.64
26	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 6 to 32amps complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				7	1764.39	12350.73	7	12350.73
27	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				7	3086.09	21602.63	7	21602.63
28	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm dia complete as per specifications and as per the direction of Engineer-in-charge of the work.	Rmt				28	344.65	9650.20	28	9650.20
29	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 complete as per specifications and as per the direction of Engineer-in-charge of the work.	No				315	154.32	48610.80	315	48610.80
30	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) cutting road surface in hard soil complete as per specifications and as per the direction of Engineer-in-charge of the work.	Cum				280	104.94	29383.20	280	29383.20
31	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.6 sqmm to 16 sqmm complete as per specifications and as per the direction of Engineer-in-charge of the work.	Rmt				315	12.22	3849.30	315	3849.30
32	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc complete as per specifications and as per the direction of Engineer-in-charge of the work.	Each				21	277.78	5833.38	21	5833.38
33	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers complete as per specifications and as per the direction of Engineer-in-charge of the work	Each				21	179.01	3759.21	21	3759.21

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SL No	Items grouped under sub-heads and sub-works of the estimate		Previous Measurement			Present Measurement			Total Up-to-date	
		Unit	Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
34	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc. in the following classification.(RDWS SR 2019-20Pg No.08 I.No.2.26)Cutting Asphalt Road Surface complete as per specifications and as per the direction of Engineer-in-charge of the work	Cum				37.8	557.61	21077.66	37.8	21077.66
35	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc. in the following classification.Cutting in cement concrete road Surface complete as per specifications and as per the direction of Engineer-in-charge of the work	Cum				7.88	1137.85	8966.26	7.88	8966.26
36	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification complete as per specifications and as per the direction of Engineer-in-charge of the work	Cum				7.88	5248.94	41361.65	7.88	41361.65
37	Earthwork excavation for pipeline trenches including depositing on bank upto a lead of 50 mtrs and depth up to 2.00 mtrs. Including shoring and strutting, danger lighting and using sight rails and boning rods at every 100 mtrs. Wherever necessary as directed in the following strata. (Manual Means) in ordinary soil complete as per specifications and as per the direction of Engineer-in-charge of the work	Cum				697.5	269.55	188011.13	697.5	188011.13
38	Providing and installing at site of work P.V.C. pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour charges and all lift charges, handling charges including encasing the pipe around to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete as per specifications and as per the direction of Engineer-in-charge of the work	Rmt				3100	159.46	494326.00	3100.0	494326.00
39	Refilling the basement and pipeline trenches with selected available earth from trench excavation including watering, Consolidation in layers of 15 cm thick including disposing of the surplus earth with all lead & lifts. (Compacting with vibro roller) complete as per specifications and as per the direction of Engineer-in-charge of the work	Cum				697.5	105.97	73914.08	697.5	73914.08
40	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments a) 50mm dia complete as per specifications and as per the direction of Engineer-in-charge of the work	Each				20	1224.27	24485.40	20.0	24485.40
	NET TOTAL							62,61,986.98		62,61,987.0
	GST 12%							7,51,438.44		7,51,438.4
41	**BESCOM CHARGES**	each				6	20060	1,20,360.00	6	1,20,360.0
	GRAND TOTAL							71,33,785.42		71,33,785.4

Rupees in words: Seventy one lakh thirty three thousand seven hundred and eighty five only.

Certificate

1 **The contractor work done and Satisfactorly**
2 **Departmental Issues Nill**
3 **The Amount chargeble to P0190 Works sanctioned by Hon Mayor.**

Asst. Engineer
Ward no 14, Dasarahalli Sub Div
BBMP Bangalore

Asst, Executive Engineer
Ward no 14, Dasarahalli Sub Div
Bangalore-

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